

Reference = AAIJ 15X; PR D92 012012
 Verifier code = LHCb

Normally we send all verifications for one experiment to one person, usually the spokesperson or data-analysis coordinator, who then distributes them to the appropriate people. Please tell us if we should send the verifications for your experiment to someone else.

PLEASE READ NOW

***PLEASE
REPLY
WITHIN
ONE WEEK***

Vincenzo Vagnoni

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July 21, 2016

Dear Colleague,

- (1) Please check the results of your experiment carefully. They are marked.
- (2) Please reply within one week.
- (3) Please reply even if everything is correct.
- (4) IMPORTANT!! Please tell WHICH papers you are verifying. We have lots of requests out.
- (5) Feel free to make comments on our treatment of any of the results (not just yours) you see.

Thank you for helping us make the Review accurate and useful.

Sincerely,

Simon Eidelman
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 RU-630090 Novosibirsk
 Russian Federation

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CHARMED MESONS

($C = \pm 1$)

$D^+ = c\bar{d}$, $D^0 = c\bar{u}$, $\bar{D}^0 = \bar{c}u$, $D^- = \bar{c}d$, similarly for D^* 's

$D_0^*(2400)^\pm$

$I(J^P) = \frac{1}{2}(0^+)$

OMITTED FROM SUMMARY TABLE

J, P need confirmation.

$D_0^*(2400)^\pm$ MASS

	VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2351± 7 OUR AVERAGE					
YOUR DATA	2360±15±30	1 AAIJ	15X LHCb	$B^0 \rightarrow \bar{D}^0 K^+ \pi^-$	
	2349± 6± 4	2 AAIJ	15Y LHCb	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$	
	2403±14±35	18.8k LINK	04A FOC	γA	
	• • • We do not use the following data for averages, fits, limits, etc. • • •				
	2354± 7±11	3 AAIJ	15Y LHCb	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$	
YOUR NOTE	1 From the Dalitz plot analysis including various K^* and D^{**} mesons as well as broad structures in the $K\pi$ S-wave and the $D\pi$ S- and P-waves. 2 Modeling the $\pi^+ \pi^-$ S-wave with the Isobar formalism. 3 Modeling the $\pi^+ \pi^-$ S-wave with the K-matrix formalism.				

NODE=MXXX035

NODE=MXXX035

NODE=M179

NODE=M179

NODE=M179M

NODE=M179M

OCCUR=2

NODE=M179M;LINKAGE=A

NODE=M179M;LINKAGE=B

NODE=M179M;LINKAGE=C

NODE=M179W

NODE=M179W

OCCUR=2

NODE=M179W;LINKAGE=A

NODE=M179W;LINKAGE=B

NODE=M179W;LINKAGE=C

NODE=M179

REFID=56588

REFID=56609

REFID=49775

NODE=M150

NODE=M150

NODE=M150M

NODE=M150M

$D_0^*(2400)^\pm$ REFERENCES

YOUR PAPER	AAIJ	15X PR D92 012012	R. Aaij et al.	(LHCb Collab.)
	AAIJ	15Y PR D92 032002	R. Aaij et al.	(LHCb Collab.)
	LINK	04A PL B586 11	J.M. Link et al.	(FOCUS Collab.)

$D_2^*(2460)^\pm$

$I(J^P) = \frac{1}{2}(2^+)$

$J^P = 2^+$ assignment strongly favored(ALBRECHT 89B).

$D_2^*(2460)^\pm$ MASS

	VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2465.4±1.3 OUR AVERAGE Error includes scale factor of 3.1. See the ideogram below.					
YOUR DATA	2465.6±1.8±1.3	1 AAIJ	15X LHCb	$B^0 \rightarrow \bar{D}^0 K^+ \pi^-$	
	2468.6±0.6±0.3	2 AAIJ	15Y LHCb	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$	
	2463.1±0.2±0.6	342k AAIJ	13CC LHCb	$p p \rightarrow D^0 \pi^+ X$	
	2460.6±4.4 _{-0.8} ^{+3.6}	1371 ABRAMOWICZ13 ZEUS	$e^\pm p \rightarrow D^{(*)0} \pi^+ X$		
	2465.4±0.2±1.1	111k DEL-AMO-SA..10P BABR	$e^+ e^- \rightarrow D^0 \pi^+ X$		

NODE=M150

NODE=M150M

